

Work Order ID 125709

125709

Page 1

Monday, November 03, 2014 2:49:36 PM

Item ID: 41228-700-009-003

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Decal

Start Date: 10/21/2014 Start Qty: 5.00

5

Cust Item ID:

Required Date: 10/21/2014 Req'd Qty: 5.00

5

Customer:

Reference:

Approvals:

Process Plan: C2

Date: 14/11/03

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

41228-700-009

IR

100

0.00

100

Purchasing

Memo

0.00

Purchasing

Issue P/O: 26368

E-mail or Ship electronic file and or dwg to vendor

Manufacture as per Dwg and supplied files

Possible supplier: Studio Letrage

Material release note is required.

C2 14/11/04 S

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.00

Packaging

6x SP 14-11-6.

Monday, November 03, 2014 2:49:35 PM

Page 1

125709

41228-700-009-003

Required Date: 10/21/2014

Required Qty: 5.00

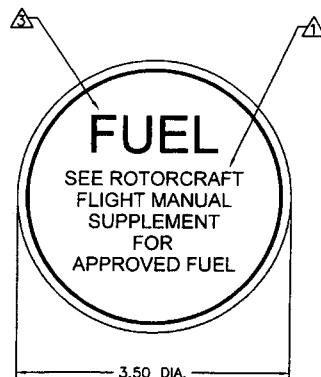
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

0.0000

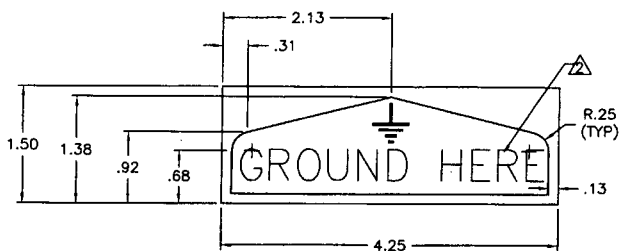
41228-700-009-003P

Decal

5
6x SP/4-11-6.



-001 DECAL-BLACK LETTERS ON CLEAR BACKGROUND



-003 DECAL-BLACK LETTERS ON CLEAR BACKGROUND

CLH/11/03
WIO: 125709.

- △ LETTERS TO BE 48 POINT HELVETICA NORMAL.
- △ LETTERS TO BE 40 POINT HELVETICA NORMAL.
- △ LETTERS TO BE 18 POINT HELVETICA NORMAL.

NOTES:

		-003	DECAL	220 SCOTCHAL FILM 3M, AVCAL, LAFAYETTE, LA. (ALT. P/N 11728-400-001-021)			
		-001	DECAL	220 SCOTCHAL FILM 3M, AVCAL, LAFAYETTE, LA.			
		PART NO.	NAME	STOCK SIZE	MATERIAL	MATL.SPEC	ZONE
NO. REQ'D PER ASSY		LIST OF MATERIAL					
PROPRIETARY RIGHTS NOTICE		UNLESS OTHERWISE SPECIFIED		DRAFTSMAN	D. NELSON	9/15/99	TITLE
THESE DATA ARE PROPRIETARY TO ERM AVIATION, INC. NO DISCLOSURE, REPRODUCTION, OR USE OF THESE DATA FOR ANY PURPOSE IS FORBIDDEN WITHOUT WRITTEN AUTHORIZATION FROM ERM AVIATION, INC. THE FOLLOWING DOES NOT APPLY TO VENDOR PARTS.		X.E.1 XOL.E.03 XOL.E.010 ANGLES ±.1/2°		CHECK			DECAL
-003	1	41228-700-001		STRESS			DWG. SIZE C SCALE 1:1
-001	2	41228-700-001		PROL. ENGR.			
OWN NO.		REV'D FOR ASSY	NEXT ASSEMBLY	NO.	HEAT TREAT	DWG. NO.	
					FINISH	REV.	
					Erm Aviation, Inc.		41228-700-009 IR



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO26368

Purchase Order Date 11/3/2014

PO Print Date 11/3/2014

Page Number 1 of 2

Order From :

VC-STU001

STUDIO DE LETTRAGE 2001
210 MAIN WEST
HAWKESBURY, ON K6A 2H6
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED

Contact Name

Vendor Phone 613 632 5449

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extend Pri
1	41228-700-009-003 AS PER DWG 41228-700-009-003 B125709	Decal	11/10/2014 Yes 11/10/2014	FN	5.00 ✓ Each	\$16.00	\$80.0
						Line Total:	\$80.0
2	71401-45 Procurement Quality Clauses A005 RIGHT OF ENTRY A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER) A013 SHELF LIFE CONTROLLED MATERIAL; 80% SHELF LIFE REQUIRED AT RECEIPT A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS	PROCUREMENT QUALITY CLAUSES	11/10/2014 No 11/10/2014		1.00 ✓	\$0.00	\$0.0

Note:

11/3/2014

Studio de Lettrage

210 Main Street W
Hawkesbury, Ontario K6A 2H6

INVOICE

Invoice No.: 23304
Date: 11/06/2014
Ship Date:
Page: 1
Re: Order No. WO13941

Sold to:

Dart Aerospace Ltd
1270 Aberdeen
Hawkesbury, Ontario K6A 1K7

Ship to:

Dart Aerospace Ltd
Hawkesbury, Ontario

632-9577

Business No.: 82500 7651 RT0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
		✓ 5	PO# 26368 41228-700-009-003 Attn: Chantal Lavoie H - HST 13% HST	H H	16.00	80.00
SP14-11-1e						10.40
Studio de Lettrage HST: #825007651RT0001						
Shipped By: Tracking Number:						
Comment:						
Sold By:						
Total Amount						90.40

****Certificate of Conformity****

Customer:

STUDIO DE LETTRAGE 2001

Purchase Order #:

PO# 26368

Packing Slip #:

w/O#13941

Part #:

Serial #:

Description:

41228-700-009-003

Quantity:

5

Certification:

We hereby certify that:

1. The above the listed items were manufactured, repaired and/or inspected in accordance with applicable drawings and/or specifications;
2. All work was accomplished in accordance with the Dart Aerospace Purchase Order;
3. Results of all inspections, chemical or physical tests, as well as other evidence, which shows the acceptability of raw materials, parts and/or assembly components are on file and available for inspection at any time.

Authority:

Drafok

APPROVAL:

Natasha B. Lafloche

Signature: 

Title: Production Coordinator

DATE:

November 4th 2014



Procurement Quality Clauses

A000 QUALITY CLAUSES NOT REQUIRED

Non-shippable items, for Dart Aerospace internal use only.

A001 STATISTICAL PROCESS CONTROL

The supplier must apply Statistical Process Control (SPC) to this purchase order. A (Cpk) of 1.33 or greater is required. Each shipment must be accompanied with a signed copy of the applicable SPC Control Plan(s). The Control Characteristic listed in SPC Control Plan shall be approved by DART AEROSPACE Quality Assurance prior to commencing with production / processing.

A002 FABRICATION INSPECTION SYSTEM (FIS) FAR21.303

The supplier's shall maintain a FIS in compliance with the requirements of FAR 21.303 (h). The FIS shall be approved and subject to audit by FAA, or its representative at any time.

A003 QUALITY SYSTEM SURVEILLANCE

As a DART AEROSPACE supplier manufacturing a product requiring DART AEROSPACE Customer and/or regulatory approval, the Seller's "Quality Control System" shall be subject to surveillance by DART AEROSPACE and the FAA.

A004 FAA-PMA /TSO

As a DART AEROSPACE supplier manufacturing an article or component for which DART AEROSPACE holds Supplemental Type Certificates (STC), your inspection system shall be subject to inspection by DART AEROSPACE at a level commensurate with criticalness of the article or component.

A005 RIGHT OF ENTRY

Allows DART AEROSPACE, its customers and regulatory agencies the right of access, through prior notification, to determine and verify the quality of work, applicable quality records and materials at all applicable area of all facilities, at any level of the supply chain, involved in the order.

A006 REQUIREMENTS FOR AIRWORTHINESS CERTIFICATION

Conformity Certification is required for articles specified on this purchase document. Include with each shipment, a true copy of Form One, Authorized Release Certificate, for Airworthiness. Foreign government equivalent to FAA Form 8130-3 is acceptable for imported articles.

A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

FAI shall be performed on all new or revised production manufactured items by seller at seller's facility. Results shall be documented on a report identified as "First Article Inspection Report" (FAIR). The report will be maintained at the seller's facility, and be available for review by Dart Aerospace when requested.

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

FAI's shall be performed on all new or revised production manufactured items by seller at seller's facility. Results will be documented on a report identified as a "First Article Inspection Report" (FAIR). The identified first article unit and the FAIR will be sent to Dart Aerospace.



Procurement Quality Clauses

A009 FIRST ARTICLE INSPECTION (FAI) BY DART AEROSPACE AT SELLER'S FACILITY

FAI and/or test shall be accomplished at the Seller's facility before the balance of order may be shipped. DART AEROSPACE will conduct or witness inspections and/or tests and the results will be on a report form identified as "First Article Inspection Report".

A010 DART AEROSPACE SOURCE INSPECTIONS

Dart Aerospace inspection is required prior to shipment from your facility. Evidence of such inspection must be included in your packing documents accompanying each shipment. You must contact Dart Aerospace's buyer and establish verification arrangements and the method of product release. Drawings, inspection/test documents, and specifications, as applicable, covering material on this order shall be available for inspection at your facility.

A011 DELEGATIONS -SUPPLIER VERIFICATION OF DART AEROSPACE PRODUCT

The supplier has met the requirements established by DART AEROSPACE quality organization for the verification of DART product.

A012 CHEMICAL AND PHYSICAL TEST REPORTS

Each shipment must be accompanied by one (1) legible and reproducible copy of all chemical and physical test reports identifiable with materials ordered. The reports must contain the signature and title of the authorized representative of the agency performing the test and must assure conformance to specification requirements.

A013 SHELF LIFE CONTROLLED MATERIAL; 80% SHELF LIFE REQUIRED AT RECEIPT

Time sensitive material shall be furnished with a minimum of 80% of its shelf life remaining at date of shipment. Shelf life duration, date of manufacture and date of expiration shall be listed on material certification.

A014 SHELF LIFE CONTROLLED MATERIAL; 70% SHELF LIFE REQUIRED AT RECEIPT

Time sensitive material shall be furnished with a minimum of 70% of its shelf life remaining at date of shipment. Shelf life duration, date of manufacture and date of expiration shall be listed on material certification.

A015 SHELF LIFE CONTROLLED MATERIAL; 60% SHELF LIFE REQUIRED AT RECEIPT

Time sensitive material shall be furnished with a minimum of 60% of its shelf life remaining at date of shipment. Shelf life duration, date of manufacture and date of expiration shall be listed on material certification.

A016 PERSONNEL QUALIFICATION

Supplier shall ensure all employees performing quality sensitive tasks on Dart products are qualified to perform the task associated with the product and this information is available in their training records.



Procurement Quality Clauses

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A. Sheet or Plate Stock -Metallic or Non-Metallic

Each sheet or plate shipped shall be identified by continuous stenciling, of sufficient size to be readily legible, applied by permanent ink or dye of contrasting color, non-injurious to metal surfaces and not soluble.

B. Rod, Bar or Tube -all shapes -1/2 inch cross section or larger

Each length of Rod, Bar or Tube shipped shall be identified at one end or by continuous stenciling, of sufficient size to be readily legible, applied by permanent ink or dye of contrasting color, non-injurious to metal surfaces and not soluble in cutting and coolant oils. If continuous, spacing between groups of stencil letters shall not exceed twelve (12) inches. Information shall include material type or designation, material specification and temper.

C. Rod, Bar or Tube -all shapes -Smaller than 1/2 inch cross section

Rod, bar or tube shipped shall be bundled together; each bundle containing materials from the same (manufacturing/heat treatment) batch, and shall be identified as follows: An adhesive label or identification tag shall be securely attached to each bundle. This label or tag shall be permanently marked to indicate material type or designation, material specification and temper.

D. Castings / Forging -Ferrous or Non-Ferrous

Material shipped shall be identified with the part number, "melt" number, heat treat lot (if applicable) and serial number (if applicable). Identification of parts shall be in accordance with applicable drawings/specifications. Where drawings or specifications do not define method of identification, such identification shall be effected in accordance with MIL-STD-130.

E. Extrusions

Each length of extrusion shall be identified at one end or by continuous stenciling, of sufficient size to be readily legible, applied by permanent ink or dye of contrasting color, non-injurious to metal surfaces and not soluble in cutting and coolant oils. If continuous, spacing between groups of stencil letters shall not exceed twelve inches. Information shall include material type or designation, material specification, temper and heat lot number.

A018 ELECTRICAL EQUIPMENT

Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate containing the signature and title of the person authorizing the release of product. The certificate shall contain the part number, specification to which they conform, and general characteristic. When the parts are serialized, serial numbers shall be included on the certification. Manufacturer will maintain test reports, specification conformation and general characteristics on-site and available upon request.

A019 ELECTRICAL CABLES (WIRES)

Electrical cables shall be identified with the part number and manufacturing code. The spool, and Certificate of Conformance shall be identified per applicable standard/specification with the following information: standard / specification, size code, manufacturing year, country code (if applicable), and manufacturer.



Procurement Quality Clauses

A020 NON-DESTRUCTIVE TEST/INSPECTION IDENTIFICATION

All parts found to be acceptable by non-destructive testing methods are to be so identified by placing the proper acceptance test /inspection stamp on such acceptable parts. All parts found to be unacceptable are to be so identified by placing the proper withholding stamp on such defective parts. In those cases where NDT testing is being performed by a lower-tier supplier and his acceptance stamp is obliterated by further processing a copy of the lower-tier's certification must accompany shipment to DART AEROSPACE.

A021 DART AEROSPACE PROCESSING

Seller shall assure that any process and or non-destructive test (NDT) requested on this purchase order shall be performed only by sources currently appearing on the DART AEROSPACE's "List of Approved Vendors" for the specific type of work to be conducted.

A022 APICAL PROCESSING

Seller shall assure that any process work to be performed on Apical design and/or Part numbers by the Seller or its suppliers shall be performed only by sources noted in the latest published Apical Document Number MPP-120. MPP-120 Sources were used shall be submitted with AS9102 First Article Inspection Report and as requested by Dart Aerospace.

A023 IDENTIFICATION OF "DANGEROUS GOODS"

A "Dangerous Goods" decal must be applied to the outer container of the item being shipped and to the associated shipping document (shipper). Also, one copy of the applicable MSDS sheet must be provided with each shipment.

This is in addition to federal & provincial requirements noted in IATA & DOT CFR. It does not relieve the supplier of their responsibility to comply with any marking & labeling requirements set forth in the IATA & DOT CFR or any other legal documentation that may apply to this shipment.

A024 PROCESS CERTIFICATIONS

Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate that must include the signature and title of the person authorizing release of product certifying all processes used, such as heat treating, welding, NDT, surface preparation and treatment, etc. The certificate shall include the processing used, the specification to which they conform and the name of the agency that performed them if other than the seller (i.e. sub-vendor). When the parts are serialized, serial numbers shall be included on the certification.

A025 CERTIFICATE OF CONFORMANCE

Each shipment shall be accompanied by one (1) legible and reproducible copy of a Certification Document (Certificate of Conformance, Shipper, Packing List, etc.) that includes the identification (signature, electronic signature, stamp, etc.) of the person authorizing release of product assuring the items ordered were produced in accordance with and conforming in all respects with all applicable requirements set forth in Buyer's Standard Purchase Order Terms and Conditions and/or its contract with Seller, including specifications, drawings, revision, marking requirements, physical item identification and electrical characteristics when applicable. When the parts are serialized, serial numbers shall be included on the certification.



Procurement Quality Clauses

A026 CERTIFICATION OF MATERIAL CONFORMANCE

Each shipment shall be accompanied by one (1) legible and reproducible copy of a Certification Document (Certificate of Conformance, Shipper, Packing List, etc.) that includes the identification (signature, electronic signature, stamp, etc. of the person authorizing release of product certifying each material used to fabricate the items ordered in this "Purchase Order".

A027 FLAMMABILITY TEST

Test reports showing actual results of flammability test which meet the requirements of FAR 25.853(a) and signed by a responsible party shall accompany this shipment.

A028 FLAMMABILITY TEST

Flammability Test reports showing actual results of flammability test(s). Reports must show Fire Worthiness resistance shall be such that the requirements of FAR 25.853 (a), Amendment 25-116 (60-Second Vertical Bunsen Burner Test). Appendix F, Part I will be met, or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR-00/12).

A029 FLAMMABILITY TEST

Flammability Test reports verifying Smoke emission shall be such that the requirements of FAR 25.853 (d) Amendment 25-116. Appendix F, Part V will be met, or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR00/12). Reports must include a brief description of the sample and mounting.

A030 FLAMMABILITY TEST

Flammability Test reports verifying Heat release capability shall be such that the requirements of FAR 25.853 (d), Amendment 25-116. Appendix F, Part IV will be met, or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR-00/12). Reports must include a brief description of the sample and mounting.

A031 FLAMMABILITY TEST

Flammability Test reports showing actual test results of flammability tests which meet the requirements of FAR 25.856 (a) and AC25.856-1 or the latest revision of the Aircraft Materials Fire Test Handbook (DOT/FAA/AR-00/12).

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

Supplier (Distributor) Certification: A Certification shall accompany each shipment of fasteners/washers, containing the following, as a minimum:

The manufacturer lot number(s) with associates part number(s); Manufacturers name; DART AEROSPACE P.O. number; and a statement to the effect that the manufactures certification (required by the Section 7 of the "Law") is on file with the distributor.

Supplier (Manufacturer) Certification: A Certification in accordance with Section 7 of the "Law" shall accompany each shipment.

Packaging: Each lot shall be packaged in a manner that ensures there will be no co-mingling of like fasteners from different lots in the same container.

Identification: Each package shall be identified with the lot number, name of the parts, part identification number, P.O. number and name of fastener manufacturer.



Procurement Quality Clauses

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

1. When supplier is the fastener manufacturer -Each shipment shall be accompanied by one (1) legible and reproducible copy of a certificate of conformance containing the signature and title of an authorized representative which stated that the fastener have been manufactured in accordance with requirements of the applicable NAS, AN, MS government approved Parts Standard and Procurement Specification; and the chemical / physical test reports required by the government approved Procurement Specification are on file with the manufacturer, and available for review by customer and /or government quality assurance representative upon request.

2. When the supplier is a distributor -Each shipment shall be accompanied by one (1) legible and reproducible copy of conformity to purchase order requirements. The statement of conformity as a minimum shall contain DART AEROSPACE P.O. number, packing slip number; a copy of applicable test records (chemical, physical, processes and NDT) required by the government approved Parts Standard and Procurement Specification are available, or are obtainable upon customer request. The statement of conformity must contain the name of the fastener manufacturer, and shall be signed and dated by an authorized representative.

A034 INTER COMPANY SHIPPERS

When products are shipped from one Dart Aerospace facility to another, the certification log number of the product being shipped must be recorded on the shipping document.

A035 OUT TIME REQUIREMENTS

Supplier must record the "out-time" of exposure sensitive material (pre-preg) on packing list.

A036 PRIORITY DX-A1

Priority DX-A1; This is a rated order certified for national defense use. You are required to follow all the provisions of Defense Priorities and Allocations System regulation (15 CFR 350).

A037 PRIORITY DO-A1

Priority DO-A1; This is a rated order certified for national defense use. You are required to follow all the provisions of the Defense Priorities and Allocations system regulation (15 CFR 350).

A038 AS9102 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

A FAI per AS9102 shall be performed on all new or revised manufactured items by the seller or at the seller's facility. Forms other than as identified in the Appendix of AS9102 must contain all required and conditionally required information and use same field reference numbers. Report is to be maintained at seller's facility and available for review at Dart Aerospace's request.

A039 AS9102 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

A FAI per AS9102 shall be performed on all new or revised manufactured items by the seller or at the seller's facility. Forms used other than as identified in the Appendix of AS9102 must contain all required and conditionally required information and use same field reference numbers. The report will be sent to Dart Aerospace.



Procurement Quality Clauses

A040 NOTIFICATION OF QUALITY ESCAPE

Seller will report to Buyer if a product, article or part has been released from Seller or Seller's subcontractors or suppliers and subsequently found not to conform to the applicable design data.

A041 QUALITY MANAGEMENT SYSTEM

Supplier shall implement, document and maintain a Quality Management System in accordance with applicable requirements of AS9100 series standards or ISO9001 standard and additional requirements specified on Buyers contract or purchase order.

The Quality Management system shall be appropriate to the products the Supplier designs, manufactures, repairs or sells and shall cover all activities concerned by Dart Aerospace contracts or purchase orders.

A042 DART NOTIFICATION BY SUPPLIER

Supplier shall notify Dart of changes in product and / or process, change of supplier and changes of manufacturing facility locations.



Europe GmbH

Safety Data Sheet according to
(EG)1907/2006

ORAJET ® 3651

Page 1 to 5
Version 01/13
Date 06.03.2013

1. description of item production and manufacture

Trade name: ORAJET ® 3651

Use: self adhesive printing film

manufacturer

Orafol Europe GmbH

Orafolstrasse 2

D - 16515 Oranienburg

Tel.: + 49 03301 864 0

Fax.: + 49 03301 864 100

E-mail address: p.kanert@orafol.de

Emergency Telephone

Information centre for symptom of poisoning Berlin + 49 030 19 240

2. possible dangers

risk to human beings and environment:

none

3. composition / information about components

chemical characteristics

pvc - film

polyacrylate adhesive

silicone - coated paper

Dangerous contents

Do not contain hazardous substances neither substances of the "Candidate List of Substances of Very High Concern for authorisation" ECHA (REACH) concentration >0,1 % (w/w) (Relating: film + adhesive)

* The original components which are used in the formulation of these products form the basis of evaluation. This statement refers to the condition when leaving the factory ORAFOL Europe GmbH in Oranienburg.

This information is based on our current knowledge and practical experience. It cannot be excluded that minor traces are included in the materials due to contamination of single raw material components which cannot be avoided from the technical point of view. Routine analyses of our products concerning contents of the above-mentioned components are not carried out. For factors which are beyond our knowledge and control any guarantee and liability cannot be accepted.

The statement refers to our current production. Old stock could deviation from the assessment.

4. recommendations for first medical aid

general information

after inhalation	none
after contact with the skin	none
after contact with the eyes	none
after having swallowed up	none
special information for the doctor	none

5. recommendation for fire fighting

suitable fire extinguishing media all types

fire extinguishing media which are not suitable for safety reasons

None

special danger by the material itself and from combustion products

hazardous decomposition products at flame temperature: carbon dioxide, carbon monoxide. PVC-films develop gaseous HCl at flame temperature.

special protecting equipment none

additional information none

6. recommendations in case of unintentional escape

recommendations in respect of persons: none

recommendations regarding environment: none

recommendatin for cleaning: none

additional information: none

7. handling and storage

information for use with danger

none

information regarding fire prevention and explosion

none

requirements to storage places and storage containers

none

further information

none

8. limitation of exposition and personal protective equipment

supplementary information regarding construction of technical plants

none



Europe GmbH

Safety Data Sheet according to
(EG)1907/2006

ORAJET ® 3651

Page 3 to 5
Version 01/13
Date 06.03.2013

contents regarding working place and threshold values that have to be supervised

not applicable

personal protective equipment

breathing protection

not necessary

hand protection

not necessary

eye protection

not necessary

body protection

not necessary

hygiene recommendatin

as usual regarding working place

9. physical and chemical properties

phenotype

appearance

solid

colour

white or transparent

odour

none

data regarding security

pH-value

not applicable

boiling point

not applicable

melting or fusing point

not applicable

flash point

not applicable

flammability on solid bases

not applicable

flammability of gases:

not applicable

flammable temperature

not applicable

spontaneous ignition of the solid

not applicable

spontaneous ignition of the gas

not applicable

properties assisting inflammation

not applicable

danger of explosion

not applicable

limits of explosion

not applicable

consistency/density

not applicable

water solubility/fat solubility

not applicable

viscosity

not applicable

10. stability and reactivity

conditions to be avoided

not applicable

substances to avoid

not applicable

dangerous decomposition of products

none in case of appropriate use

11. information regarding toxicology

acute toxicology



Europe GmbH

Safety Data Sheet according to
(EG)1907/2006

ORAJET ® 3651

Page 4 to 5
Version 01/13
Date 06.03.2013

classification limit LD₅₀/LC₅₀-value

oral	not determined
dermatologic	not determined
inhalative	not determined

irritating effects

to skin	not applicable
to eyes	not applicable

sensitizing effects

look to general remarks

experience from the practical use

experience classification	not applicable
other experience	not applicable

general remarks

Due to generally increasing allergic influences direct contact to the tacky surface should be avoided as far as possible as specific reactions to human skin cannot be excluded.

12. information regarding ecology

information regarding elimination (product life and decomposition)	not determined
environmental properties	not applicable

eco- toxic reactions

aquatic effects	generally speaking no danger to water (self classification)
additional ecologic informations	none

13. information regarding recycling

recommendation : waste class similar to household waste, is to be recycled according to the local regulations

14. information regarding transportation

additional information: *not classified as a dangerous product in respect to transportation regulations*

15. prescription / instructions

Comply with regulation RoHS Compliance EU Directive 2011/65

* The original components which are used in the formulation of these products form the basis of evaluation. This statement refers to the condition when leaving the factory ORAFOL Europe GmbH in Oranienburg.

This information is based on our current knowledge and practical experience. It cannot be excluded that minor traces are included in the materials due to contamination of single raw material components which cannot be avoided from the technical point of view. Routine analyses of our products concerning contents of the above-mentioned components are not carried out. For factors which are beyond our knowledge and control any guarantee and liability cannot be accepted.

The statement refers to our current production. Old stock could deviation from the assessment.

No dangerous product / composition in respect to the classification of risks EEC
No: 594/91 dated 4.3.91 is stuck to, also No: 67/548 (very toxic materials).

H phrases: none

P phrases: none

National regulations: Germany

Water hazard class – no hazardous for water

16. other information

All information given in this certificate is based on our current knowledge and experience; the figures and individual information do not describe any technical data of a product and do not constitute a warranty of properties as defined by technical specifications.

ORAJET® Series 3651 Intermediate Grade Calendered PVC Digital Media

Description

2.5-mil, intermediate calendered PVC film available in transparent or in white with a gloss, semi-gloss, or matte surface

Release Paper

90# PE-coated silicone paper

Adhesive

Grey, solvent-based, permanent adhesive

Applications

For general signage, and other medium term flat outdoor applications.

Technical Data

Thickness (without protective paper and adhesive)	2.5 mil
Dimensional Stability (FINAT TM-14)	Adhered to steel, no shrinkage in cross direction; In length, <.016"
Temperature Resistance	Adhered to aluminum, -40°F to +176°F, no variation
Fire Behavior (DIN 75200)	Adhered to steel, self-extinguishing
Fire Rating	ASTM E 84-07 Class "A"
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 4.1 lb/in
Tensile Strength (DIN EN ISO 527)	
Along	Min. 19 MPa
Across	Min. 19 MPa
Elongation at Break (DIN EN ISO 527)	
Along	Min. 130%
Across	Min. 150%
Seawaterability (DIN 50 021)	Adhered to aluminum, after 100h/73°F, no variation
Shelf Life (68°F/50% relative humidity)	2 years
Minimum Application Temperature	46°F
Available Lengths	150' (50-yard)
Available Widths (inches)	30, 36, 50, 54, 60
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	5 years (Unprinted)
Recommended Laminates	ORAGUARD®, Series 210, 215, 240

Oracal recommends that printed film is allowed to dry for at least 24 hours at 70°F (48-72 preferred) before applying a laminate.

Attention

Recycling Recommendation: Waste class similar to household waste, is to be recycled according to the local regulations.

Surfaces to which the material will be applied must be cleaned thoroughly of dust, grease or any contaminants. Freshly lacquered or painted surfaces should be allowed to stand for at least three weeks after complete curing. The compatibility of selected lacquers and paints should be tested by the end-user prior to use.

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without any guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications, customers should independently determine the suitability of this material for their specific purpose, prior to use.

For instant access to more information click on the links below

Profiles

<http://www.oracal.com/knowledge/icc-profiles.asp>

Tech Support

<http://www.oracal.com/knowledge/contact-support.asp>

Find a Distributor

<http://www.oracal.com/distributors/>

General Warranty

http://www.oracal.com/_userfiles/File/GeneralWarranty.pdf



ORAJET® Series 3651 Intermediate Grade Calendered PVC Digital Media

Description

2.5-mil, intermediate calendered PVC film available in transparent or in white with a gloss, semi-gloss, or matte surface

Release Paper

90# PE-coated silicone paper

Adhesive

Grey, solvent-based, permanent adhesive

Applications

For general signage, and other medium term flat outdoor applications.

Technical Data

Thickness (without protective paper and adhesive)	2.5 mil
Dimensional Stability (FINAT TM-14)	Adhered to steel, no shrinkage in cross direction; In length, <.016"
Temperature Resistance	Adhered to aluminum, -40°F to +176°F, no variation
Fire Behavior (DIN 75200)	Adhered to steel, self-extinguishing
Fire Rating	ASTM E 84-07 Class "A"
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 4.1 lb/in
Tensile Strength (DIN EN ISO 527)	
Along	Min. 19 MPa
Across	Min. 19 MPa
Elongation at Break (DIN EN ISO 527)	
Along	Min. 130%
Across	Min. 150%
Seawaterability (DIN 50 021)	Adhered to aluminum, after 100h/73°F, no variation
Shelf Life (68°F/50% relative humidity)	2 years
Minimum Application Temperature	46°F
Available Lengths	150' (50-yard)
Available Widths (inches)	30, 36, 50, 54, 60
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	5 years (Unprinted)
Recommended Laminates	ORAGUARD®, Series 210, 215, 240

Oracal recommends that printed film is allowed to dry for at least 24 hours at 70°F (48-72 preferred) before applying a laminate.

Attention

Recycling Recommendation: Waste class similar to household waste, is to be recycled according to the local regulations.

Surfaces to which the material will be applied must be cleaned thoroughly of dust, grease or any contaminants. Freshly lacquered or painted surfaces should be allowed to stand for at least three weeks after complete curing. The compatibility of selected lacquers and paints should be tested by the end-user prior to use.

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without any guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications, customers should independently determine the suitability of this material for their specific purpose, prior to use.

For instant access to more information click on the links below

Profiles

<http://www.oracal.com/knowledge/icc-profiles.asp>

Tech Support

<http://www.oracal.com/knowledge/contact-support.asp>

Find a Distributor

<http://www.oracal.com/distributors/>

General Warranty

http://www.oracal.com/_userfiles/File/GeneralWarranty.pdf

